BEFORE THE BOARD OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES

IN AND FOR THE STATE OF UTAH

IN THE MATTER OF THE REQUEST FOR AGENCY ACTION OF WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC, FOR AN ORDER AUTHORIZING THE FLARING AND VENTING OF GAS IN EXCESS OF THE AMOUNTS ALLOWED UNDER UTAH ADMIN. CODE RULE R649-3-20(1.1) FROM THE WOLVERINE FEDERAL ARAPIEN VALLEY 24-1 AND PROVIDENCE FEDERAL 24-4 WELLS LOCATED IN THE W1/2 OF SECTION 24, TOWNSHIP 20 SOUTH, RANGE 1 EAST, SLM, SANPETE COUNTY, UTAH.

DOCKET NO. 2010-010 CAUSE NO. 269-01

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TAKEN AT: Department of Natural Resources

1594 West North Temple, Room 1040

Salt Lake City, Utah

DATE: Wednesday, December 8, 2010

TIME: 4:48 p.m. to 5:18 p.m.

REPORTED BY: Michelle Mallonee, RPR

ATKINSON BAKER COURT REPORTING JOB #A403309

1	APPEARANCES	1	INDEX
2		2	WITNESS
3	BOARD OF OIL, GAS AND MINING:	3	Edward A. Higuera
4	Douglas E. Johnson, Chairman Ruland J. Gill, Jr.	4	Testimony profferd by Mr. MacDonald
5	Jake Y. Harouny	5	resumony promera by the ridebondia
	James T. Jensen		Thomas W. Zadick
6	Kelly L. Payne	6	momas W. Zaalek
7	Samuel C. Quigley Jean Semborski (Excused)		Testimony proffered by Mr. MacDonald
8	Jedii Semborski (Excused)	7	resumony proffered by this ridebondid
9	DIVISION OF OIL, GAS AND MINING:	8	
10	John R. Baza, Director	9	
11	Dana Dean, Associate Director, Mining	10	
11	John Rogers, Associate Director, Oil and Gas Jim Springer, Public Information Officer	11	
12	Steve Schneider, Administrative Policy Coordinator	12	
	Julie Ann Carter, Secretary to the Board	13	
13		14	
14 15	ASSISTANT ATTORNEYS GENERAL:	15	
16	Fred Donaldson - Division Attorney	16	
	Steve Alder - Division Attorney	17	
17	Emily Lewis - Division Attorney	18	
18	Michael S. Johnson - Board Attorney	19	
19		20	
20		21	
21		22	
22		23	
23 24		24	
25		25	
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1	FOR WOLVERINE GAS & OIL COMPANY OF UTAH, LLC:	1	Docket No. 2010-010 Cause No. 269-01
2	FREDERICK M. MACDONALD, ESQ.	2	Wednesday, December 8, 2010
	BEATTY & WOZNIAK	3	(The proceedings began at 4:58 P.M. a.m.)
3	6925 Union Park Center	4	CHAIRMAN JOHNSON: This is Agenda Item No. 9,
4	Suite 525	5	
4	Cottonwood Heights, Utah 84047-6003 Telephone: (801) 566-8446		Docket No. 2010-010 Cause No. 269-01 - In the Matter of
5	Telephone. (001) 300 0440	6	the Request for Agency Action of Wolverine Gas and Oil
6		7	Company of Utah, LLC, for an Order Authorizing the
7	FOR THE DIVISION OF OIL, GAS, AND MINING:	8	Flaring and Venting of Gas in Excess of the Amounts
8	STEVEN F. ALDER, ESQ.	9	Allowed under Utah Admin. Code Rule R649-3-20(1.1) from
0	UTAH ATTORNEY GENERAL'S OFFICE	10	the Wolverine Federal Arapien Valley 24-1 and Providence
9	Natural Resources Division 1594 West North Temple	11	Federal 24-4 Wells Located in the W1/2 of Section 24,
10	Suite 300	12	Township 20 South, Range 1 East, SLM, Sanpete County,
_ 0	Salt Lake City, Utah 84116	13	Utah.
11	(801) 538-7200	14	Whenever you are ready, Mr. MacDonald. You are
12		15	representing the petitioner?
13		16	MR. MACDONALD: I am. Fred MacDonald of Beatty
14		17	& Wozniak.
15 16		18	
17			CHAIRMAN JOHNSON: And Mr. Alder, you are
18		19	representing the Division?
19		20	MR. ALDER: Yes, sir.
20		21	CHAIRMAN JOHNSON: Thank you. Whenever you are
21		22	ready.
22		23	MR. MACDONALD: Thank you, Mr. Chairman.
23 24		24	First of all, on behalf of Wolverine I'd like to
		25	thank the Board for agreeing to hear this motion on an
2.5			
25	Page 3		Page 5

1	and the disease. The survey has been a love device and cooks	1	MD MACDONALD Assis as the Board III well
1	expedited basis. I know you've had a long day, and we're	1	MR. MACDONALD: Again, as the Board will recall,
2	just adding it. But again, I think the testimony will	2	this matter was originally heard in February of last
3	reflect why it was important to have it on the expedited	3	year. It's a request for flaring and venting in the
4 5	basis.	4 5	amounts that are in excess of what is allowed under the
	With me today are Mr. Thomas Zadick, who is the	6	regulation.
6 7	contract reservoir engineer for Wolverine, and Mr. Edward		At the hearing in February, there was some
	Higuera, the manager of development for Wolverine Oil &	7 8	discussion that there was not enough data to make a
8 9	Gas Corporation, which is the parent of the petitioner	9	proper determination to meet all the criteria required
10	and it's petroleum engineer. And I'd ask that they be		under the regulations to allow that flaring and venting.
	sworn in at this time.	10	And instead, the Board agreed, based on a stipulation
11 12	THE REPORTER: Will you raise your right hands,	11	entered by the Division, BLM, and the petitioner, who
	please.	12	were the only parties that appeared, that an extension of
13	You do solemnly swear the testimony you are	13	the testing period for six months or cumulative gas
14	about to give will be the truth, the whole truth, and	14	production of 360,000 mcf from the two wells in question
15	nothing but the truth so help you God?	15	was authorized with the idea that the petitioner would
16	(The witnesses answered in the affirmative.)	16	come back in front of the Board, analyze that data, and
17	MR. MACDONALD: Mr. Chairman, I would remind the	17	then hopefully have a better position to meet the
18	Board	18	criteria to allow for the flaring and venting that was
19	MR. GILL: Mr. Chairman.	19	requested.
20	Mr. MacDonald, just to make sure that we have	20	The authorized operations on the two wells were
21	everything in as quickly as we can, rather than go	21	conducted this past summer. The wells have produced.
22	through a long question and answer, would it be possible	22	They are both now producing from the Navajo 1 formation.
23	and fair to you and your client to just make a proffer of	23	If you recall, one of the wells was in a lower formation
24	what they would say?	24	that was not deemed to be economically viable at the
25	MR. MACDONALD: Certainly, if that's I was	25	time. But the main concern right now is that the Navajo
	Page 6		Page 8
1	going to offer to the fact that have your have hones the	1	1 was the formation of interest, and it was the modeling
	going to offer to the fact that however bare bones the	2	1 was the formation of interest, and it was the modeling.
2	Board felt comfortable with.  MR. GILL: And I'd like to ask the Chairman to	3	So both wells, the operations were conducted.
4	ask Mr. Alder what he would think of that, and then ask	4	Mr. Higuera would testify to that. He would testify that
5	the Board.	5	also the limitation that the Board set of the 360,000
6		6	mcf, based on the current rates that are producing, would
	CHAIRMAN JOHNSON: Mr. Alder, what would you	7	be reached by December 26 of this year. The six-month
7 8	think of that?	8	period for either well would not have been reached by
9	MR. ALDER: I don't have enough information to	9	that time but the cumulative gas would have at that time.
	give an opinion. I don't know exactly the nature of the		Both Mr. Higuera and Mr. Zadick would testify
10 11	request.	10 11	that the preliminary analysis of the data so far has
12	CHAIRMAN JOHNSON: Okay.		provided somewhat inconclusive data regarding the nature
	MR. GILL: The idea is he makes the proffer. If	12	of the oil-water boundary. In other words, the data that
13	there's not a question about it, then it would from	13	has been generated and it's reflected in the
14	other lawyers, and	14	exhibits shows that what would have been then expected
15	CHAIRMAN JOHNSON: Because of the fact that we	15	to be an active aquifer based on all the data knowing
16	have two Board members that are going to leave in 15	16	of the reservoir from the Covenant field as well as the
17	minutes, why don't we have Mr. MacDonald proffer that.	17	analogous Nugget formation actually is showing now
18	And if there are questions or concerns, then we can go	18	that it may be an inactive aquifer. And it's
19	into testimony from the witnesses.	19	inconsistent with what was expected.
	Would that be all right?	20	And one of the ways to try and confirm that
20			
21	So we'll see how that goes, Mr. Alder.	21	trend if that is, in fact, the case, or if it's just
21 22	MR. ALDER: Yes, that would be fine.	22	an anomaly is for an additional testing period. And
21 22 23	MR. ALDER: Yes, that would be fine. CHAIRMAN JOHNSON: Play it by ear. That will	22 23	an anomaly is for an additional testing period. And what Mr. Zadick would testify to is that Wolverine
21 22 23 24	MR. ALDER: Yes, that would be fine. CHAIRMAN JOHNSON: Play it by ear. That will give us all, if nothing else, a good road map of where	22 23 24	an anomaly is for an additional testing period. And what Mr. Zadick would testify to is that Wolverine believes that an additional 60 days of testing or a
21 22 23	MR. ALDER: Yes, that would be fine. CHAIRMAN JOHNSON: Play it by ear. That will	22 23	an anomaly is for an additional testing period. And what Mr. Zadick would testify to is that Wolverine

1	reached by taking what the current rate of gas is being	1	decision. We'll still have a quorum. We can go back to
2	produced times 60 days. That's where that limitation	2	the start. As Hilary Clinton, we can do what is it, a
3	came from would provide enough additional data to make	3	recess? and start from scratch and have a hearing.
4	a determination. And the key here, again, is that the	4	Or we, with no objection, of course, from counsel
5	determination of that reservoir characteristic is	5	CHAIRMAN JOHNSON: It would be Mr. Zadick that
6	essential to determine how they proceed with the	6	would answer questions?
7	reservoir development, the options for injection, for	7	MR. MACDONALD: I think it would be Mr. Higuera
8	example, and all these parameters that are important for	8	initially. If the Board will refer to what's been marked
9	the ultimate decision by the Board, again, without	9	as Supplemental Exhibit Y or excuse me, X, which is
10	getting the Board's authority to go beyond the	10	shown on the screen right now. That answers, I think,
11	limitations it set in its March Order. That's why	11	some of Mr. Harouny's questions.
12	Wolverine is requesting this additional time.	12	But Mr. Higuera, if you would like to respond to
13	The emergency comes in from the standpoint that	13	Mr. Harouny's questions.
14	the best test results will be achieved by a continuous	14	MR. HIGUERA: Yes. Directly on Exhibit X
15	testing period. Mr. Zadick actually has a very good	15	towards the bottom, the aggregate volume for both wells
16	analogy of throwing a pebble into a pond and watching the	16	during this test period is listed there as 25,522 barrels
17	ripples and having them come back. And the problem is if	17	of oil; 248,619 mcf, and 7699 barrels of water. That's
18	you stop and you shut in the wells, it's like throwing	18	through November 14.
19	more and more pebbles in. You don't know from which way	19	If you go up further on the page, you'll get the
20	the waves develop.	20	individual numbers on a per-well basis.
21	And so the continuity of the test is very	21	MR. HAROUNY: What type of production is that
22	important. So that is why they are asking they came	22	per day? That's for both wells, correct?
23	on expedited basis to allow the continuation of the test	23	MR. HIGUERA: That is the aggregate volume for
24	so they can go an additional 60 days, take the data and	24	both wells.
25	analyze it, and then come before the Board, as was	25	MR. HAROUNY: What kind of daily production is
20	Page 10		Page 12
	Fage 10		F49E 12
			8
1		1	
1 2	originally anticipated to go forward. That would be the	1 2	that?
1 2 3	originally anticipated to go forward. That would be the proffer.		that?  MR. HIGUERA: The daily production on that page,
2	originally anticipated to go forward. That would be the proffer.  The other proffer would be, obviously, the	2	that?  MR. HIGUERA: The daily production on that page, the 24-4 well is making 46 barrels a day, 265 mcf a day,
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2 3 4 5	originally anticipated to go forward. That would be the proffer.  The other proffer would be, obviously, the foundational elements for the supplemental exhibits that were submitted to you on these matters. And again, they	2 3 4 5	that?  MR. HIGUERA: The daily production on that page, the 24-4 well is making 46 barrels a day, 265 mcf a day, and 43 barrels of water per day. And the Arapien Valley 24-1 is producing 221 barrels of oil per day, 2389 mcf,
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1	It's also, to point out for the record, that the	1	just discussed. And we're in support of it for another
2	Bureau of Land Management this is a federal unit in	2	60 days, with the understanding that there would not be a
3	federal lands. The Bureau of Land Management has filed a	3	repeat of that continuance for another 60 days.
4	letter in support of this request for the additional	4	And other that, we have no additional questions
5	testing period, as well. And that's part of the record.	5	for the witnesses and believe that the evidence that's
6	MR. HAROUNY: The gas is CO2?	6	been provided is sufficient to support the request.
7	MR. MACDONALD: Ed, do you want to testify to	7	CHAIRMAN JOHNSON: Okay.
8	that?	8	Mr. MacDonald.
9	MR. HIGUERA: Yes. If you recall, the Navajo 1	9	MR. MACDONALD: Yes, Mr. Chairman. Just as a
10	was primarily CO2 and nitrogen. It was approximately	10	standard cleaning up situation, we do need to move for
11	82 percent CO2, and about six percent nitrogen, the rest	11	admission of those exhibits, based on the proffered
12	being the hydrocarbon.	12	testimony and the foundation so that it becomes part of
13	CHAIRMAN JOHNSON: Any other questions?	13	the record.
14	MR. HAROUNY: No. So I believe your opinion	14	MR. GILL: We can do the cleaning up while we
15	back then was that this gas is not marketable?	15	still have a quorum, but
16	MR. HIGUERA: That is correct.	16	CHAIRMAN JOHNSON: Let me ask real quickly: Is
17	MR. QUIGLEY: Is that true for both wells?	17	there anyone else present who would like to address the
18	MR. HIGUERA: The gas is true for both wells on	18	Board on this matter? Okay.
19	the Navajo 1. If you recall, though, the Arapien Valley	19	MR. JENSEN: Fred, you'll get your exhibits
20	24-1 had a Navajo 2 section. And that had a different	20	introduced.
21	gas composition. And as we testified in the earlier	21	And I make the motion that we approve the
22	Board meeting, it had, in our opinion, a limited	22	request as requested. And that it's the intent of this
23	volume extent of reservoir volume. So we focused our	23	Board that this will be the last extension.
24	efforts on the Navajo 1, which was the larger reservoir	24	MR. GILL: Second that one.
25	and more complex fluid system.	25	CHAIRMAN JOHNSON: Okay. Any discussion?
	Page 14		Page 16
1	MR. HAROUNY: Do you have any idea how much of	1	All those in favor say "Aye."
1 2	MR. HAROUNY: Do you have any idea how much of the 24-1 gas is coming from Navajo 2?	1 2	All those in favor say "Aye." THE BOARD: Aye.
			· · ·
2	the 24-1 gas is coming from Navajo 2?	2	THE BOARD: Aye.
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1	MR. ALDER: No objection.	
2	CHAIRMAN JOHNSON: Does the Board have any	
3	objections or questions on any of them?	
4	Okay. So those will be admitted.	
5	I think that's it, then. Okay.	
6	Mr. MacDonald, will you prepare the Order?	
7		
	MR. MACDONALD: I will, Mr. Chairman.	
8	CHAIRMAN JOHNSON: We hope your testing is	
9	successful.	
10	MR. MACDONALD: Thank you. Happy Holidays to	
11	all of you, as well.	
12	CHAIRMAN JOHNSON: Any other matters?	
13	MR. GILL: Move to adjourn.	
14	CHAIRMAN JOHNSON: Does anyone want to address	
15	the Board on any other matters?	
16	We have a motion to adjourn. Is there a second?	
17	MR. PAYNE: Second.	
18	CHAIRMAN JOHNSON: All those in favor say "Aye."	
19	THE BOARD: Aye.	
20	CHAIRMAN JOHNSON: Anyone opposed?	
21	All right. We're adjourned.	
22	(The matter was concluded at 5:18 p.m.)	
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1 2	CERTIFICATE	
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